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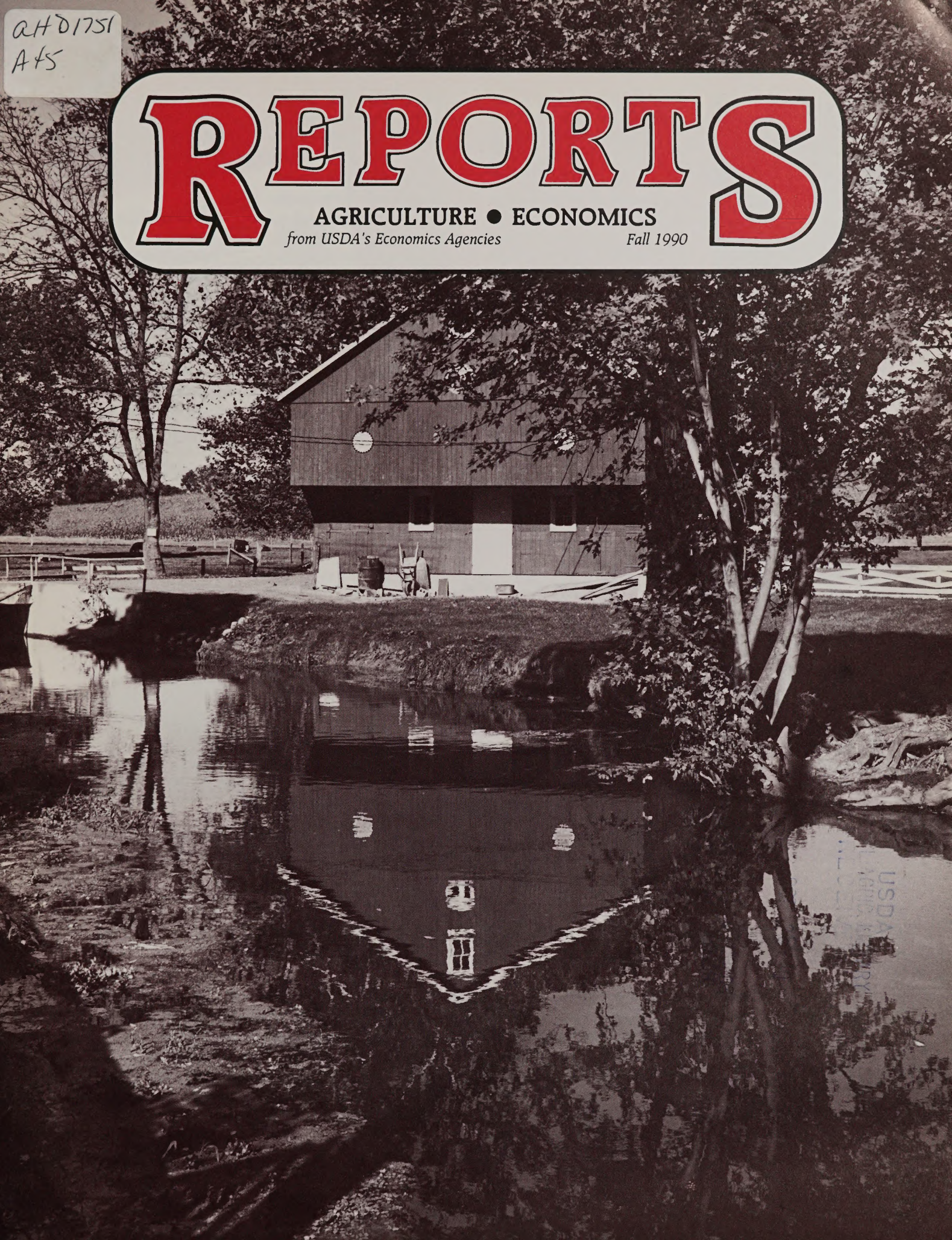
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REPORTS

AGRICULTURE • ECONOMICS
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Fall 1990



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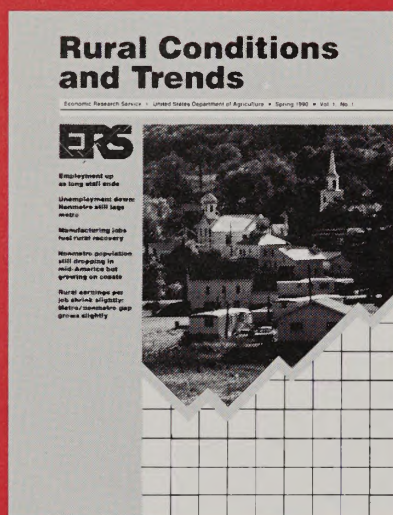
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Who we are

This catalog lists recent monographs, periodicals, data products, and videotapes available from USDA's economics agencies. The Economic Research Service issues outlook and situation reports and periodicals which analyze the current situation and forecast market conditions, as well as monographs covering trade, production, rural development, farm inputs, and other topics. The National Agricultural Statistics Service (NASS) issues reports estimating production of agricultural commodities, stocks, inventories, disposition, utilization, and prices of agricultural commodities, and such other items as labor and farm numbers. The World Agricultural Outlook Board (WAOB) issues regular forecasts of U.S. and world supply and demand prospects for major agricultural commodities.

To subscribe to this catalog, please check the order form on page 15.

New Monographs

The Wheat Program in the 1990's: Issues for Decisionmakers, by Edwin Young, Edward Allen, and Sam Evans. 13 pp. June 1990.

Government policy toward wheat, which 5 years ago focused on reducing large stocks and maintaining farm income, must now address additional issues for the coming decade. New goals will likely involve stocks and reserve policies, planting flexibility, acreage reduction programs, target price coverage, relative and absolute levels of target prices, trade policies, and environmental quality.

Order # AIB-606. \$4.00.

Effects of the 1988 Drought on Farm Finances, by Gerald Whittaker. 16 pp. August 1990.

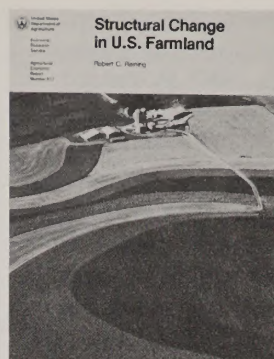
This evaluation of the effects of the 1988 drought on farm finances finds that nine States in the Upper Midwest received 70 percent of Federal crop damage payments and 40 percent of the livestock feed disaster payments which were made through August 1989. Net farm income dropped in this region while rising in the rest of the country.

Order # AIB-611. \$4.00.

Farm Structural Trends in the 1980's, by Nora L. Brooks, Judith Z. Kalbacher, and Donn A. Reimund. 16 pp. June 1990.

A snapshot of the farm sector, covering trends in farm numbers, size, sales, asset values, operator characteristics, and farmland, based on 1987 Census of Agriculture data. The farm financial stress of the early to mid-1980's spurred a drop in farm numbers, asset values, and farmland, while average farm size increased.

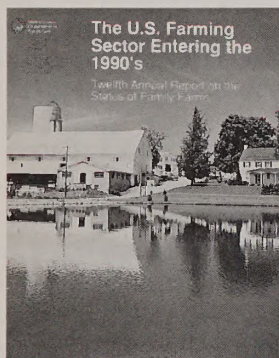
Order # AIB-605. \$4.00.



Structural Change in U.S. Farmland, by Robert C. Reining. 24 pp. June 1990.

Examines changes in the distribution of land, sales, and tenure among farms. Farms are grouped into three sales classes based on constant 1969 farm prices.

Order # AER-617. \$8.00.



Status of the U.S. Farm Sector

The U.S. Farming Sector Entering the 1990's: Twelfth Annual Report on the Status of Family Farms. 62 pp. June 1990.

Deals with the issues and institutions that are important to the farm sector and how they may affect the structure of U.S. farming. Finds that today's farmers who hope to continue into the 21st century must master the technical aspects of farm production and marketing, and also understand the implications for their farm business of changes in Federal monetary and fiscal policy, international exchange rates, environmental policy, tax policy, and emerging technologies. Order # AIB-587. \$11.00.

Figure 1
Distribution of farms and sales by sales class, 1987

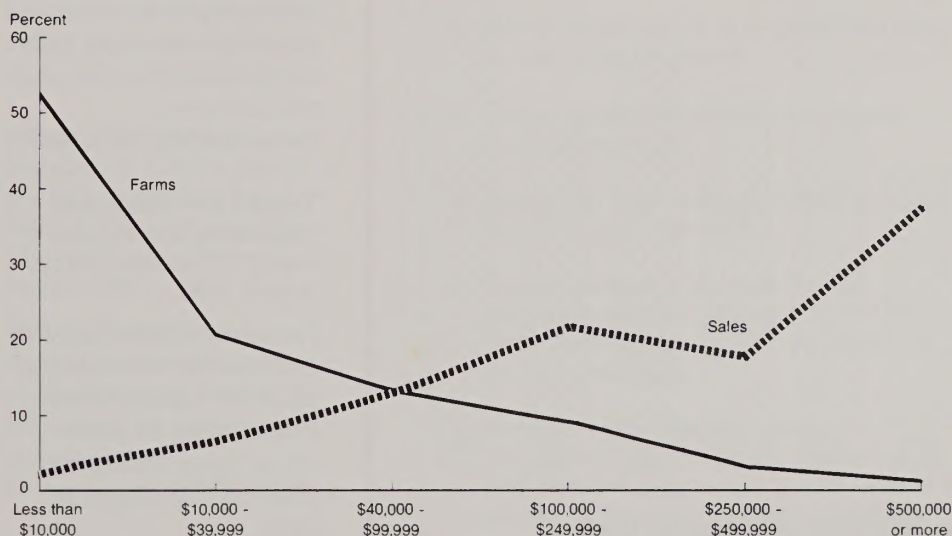


Chart from *The U.S. Farming Sector Entering the 1990's: Twelfth Annual Report on the Status of Family Farms*.

New Monographs

Characteristics of Agricultural Work Force Households, 1987, by Victor J. Oliveira and E. Jane Cox. 8 pp. August 1990.

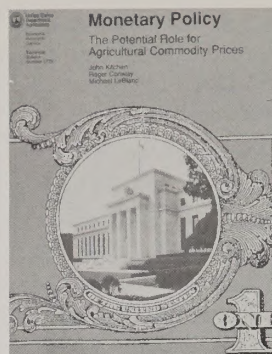
The number of U.S. agricultural work force households (households in which some member does farmwork during the year) dropped 4.1 percent between 1985 and 1987 to stand at 5.4 million. This report spotlights those households most affected by farm job loss.

Order # AIB-612. \$4.00.

Factor Intensity of U.S. Agricultural Trade, by Darryl S. Willis and Chinkook Lee. 36 pp. August 1990.

Reviews the commodity composition of U.S. agricultural exports. In 1987, each \$1 million of U.S. agricultural exports required about 31 workers and 3,500 harvested acres, compared with 39 workers and 4,300 acres in 1977.

Order # AER-637. \$8.00.



Monetary Policy: The Potential Role for Agricultural Commodity Prices, by John Kitchen, Roger Conway, and Michael LeBlanc. 22 pp. June 1990.

Presents empirical evidence on the relationships among agricultural and nonagricultural commodity prices, the general price level, monetary aggregates, interest rates, industrial production, and the exchange rate.

Order # TB-1779. \$8.00.

Agricultural Trade Liberalization and Developing Countries, by Barry Krissoff, John Sullivan, John Wainio, and Brian Johnston. 46 pp. May 1990.

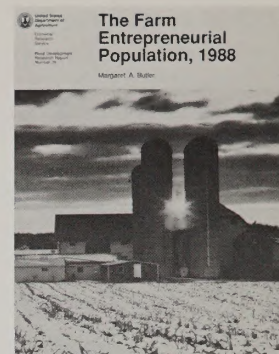
Discusses some of the potential effects of agricultural trade liberalization on the economies of developing nations, featuring a static global agricultural net trade model that contains 36 countries or regions.

Order # AGES 9042. \$8.00.

Trade Liberalization in Yugoslavia and Poland, by Nancy J. Cochrane. 48 pp. August 1990.

Presents estimates of producer and consumer subsidy equivalents for Yugoslavia and Poland, using the Static World Policy Simulation framework developed at ERS.

Order # AGES 9058. \$8.00.



The Farm Entrepreneurial Population, 1988, by Margaret A. Butler. 28 pp. July 1990.

Analyzes census data on income, education, and other characteristics of those with an economic tie to farming (about 5.3 million in 1988). The farm population, as conventionally defined, totaled about 5 million in 1988.

Order # RDRR-78. \$8.00.

Food Grains: Background for 1990 Farm Legislation, by C. Edwin Young, Nathan W. Childs, Joy L. Harwood, and William Lin. 144 pp. August 1990.

Provides domestic and international background information on the wheat and rice industries. Wheat and rice are the primary food grains produced in the United States and throughout the world.

Order # AIB-602. \$11.00.

An Update: The Diverse Social and Economic Structure of Nonmetropolitan America, by Thomas F. Hady and Peggy J. Ross. 38 pp. May 1990.

Updates a 1979 classification system of nonmetro counties developed by ERS that identified rural counties according to their economic and social structure.

Order # AGES 9036. \$8.00.

How Costs of Production Vary, by Mary Ahearn and others. 17 pp. May 1990.

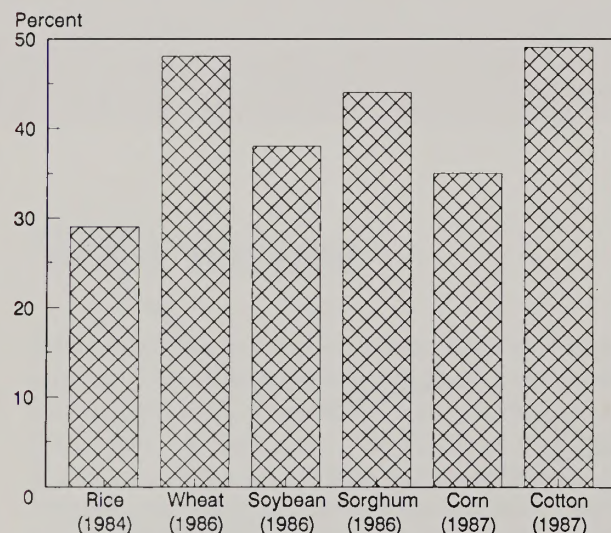
Describes the cost of producing corn in 1987, soybeans in 1986, wheat in 1986, cotton in 1987, sorghum in 1986, and rice in 1984. Costs of producing crops per unit of output vary considerably across farms.

Order # AIB-599. \$4.00.

Figure 1

Percent of U.S. production by low-cost producers

Low-cost cotton and wheat producers accounted for almost half of production, while low-cost rice producers accounted for less than 30 percent of rice production



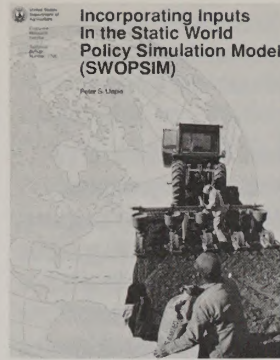
—From *How Costs of Production Vary*.



EC 1992: Perspectives on Agriculture, ed. by Walter H. Gardiner and David R. Kelch. 46 pp. May 1990. Contains five papers presented at a symposium during the 1989 annual meeting of the American Agricultural Economics Association in Baton Rouge, Louisiana. Topics include the role and reform of the EC's Common Agricultural Policy, developments in the Uruguay Round of GATT negotiations, and U.S. trade and investment links to the EC. Order # AGES 9043. \$8.00.

Trade and Development: Impact of Foreign Aid on U.S. Agriculture, ed. by Gary Vocke. 69 pp. June 1990.

This report reviews the role of the various types of foreign assistance and the international factors influencing their effectiveness in promoting economic development. Focuses on Third World economic development and import markets for agricultural products. Includes an assessment of U.S. competitiveness in these markets, the balancing of agricultural and nonagricultural interests in the United States, and assistance to developing countries. Order # AGES 9044. \$11.00.



Incorporating Inputs in the Static World Policy Simulation Model (SWOPSIM), by Peter S. Liapis. 34 pp. June 1990. Documents the methodology used to incorporate inputs in the trade liberalization models built with the Static World Policy Simulation Model. Order # TB-1780. \$8.00.

The USDA/ERS Computable General Equilibrium (CGE) Model of the United States, by Sherman Robinson, Maureen Kilkenny, and Kenneth Hanson. 78 pp. June 1990.

Documents the basic Computable General Equilibrium (CGE) model developed by ERS. Describes the model equations in detail and how the model is benchmarked to a base data set, and also lists the computer program used to implement the model. Order # AGES 9049. \$11.00.

Effects of Advertising on the Demand for Cheese, January 1982-June 1989, by James R. Blaylock and William N. Blisard. 32 pp. August 1990.

This study reports on research to determine what effect advertising has had on the demand for natural and processed cheese. Order # AGES 9055. \$8.00.

Targeting Australian Agricultural Policies for Trade Liberalization, by B.G. Johnston. 18 pp. July 1990.

The Australian Government has recently taken steps to reduce assistance levels in its economy. This report

reviews those levels in the agricultural sector since the mid-1980's and discusses how recent reform initiatives have reduced them. Order # AGES 9050. \$8.00.

Farm Program Payments

Aspects of Farm Finances: Distribution of Income, Family Income, and Direct Payments, 1986, by Robert D. Reinsel and David Banker. 21 pp. April 1990.

Cross-classifies 1986 Farm Costs and Returns Survey data to more clearly show the diverse nature of farms and their greatly varying financial conditions. Finds that income is concentrated on large farms, but losses tend to be distributed over many small farms. Order # AER-630. \$8.00.

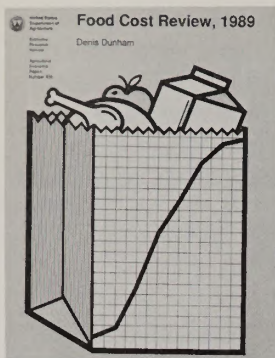
The Distribution of Farm Program Payments, 1987, by Robert D. Reinsel. 11 pp. June 1990.

Shows which groups of farms received Government payments in 1987, in what amount, and in what proportion. Cash grain producers received 60 percent of the payments from Government farm programs in 1987. Farms with over \$1 million in sales accounted for only one-half of 1 percent of farms receiving payments, but over 3 percent of the payments reported. Order # AIB-607. \$4.00.

Where Most Payments Went in 1987

- Nearly 60 percent of direct payments went to cash grain producers.
- Cotton producers received the highest average payments.
- Farms with large sales (\$1 million or more) got the largest payments.
- Sixteen percent of all farms that got payments received payments of \$25,000 or more. That group received 69 percent of the total payments.
- By type of organization, nonfamily corporations got the largest payments, but they accounted for less than one-tenth of 1 percent of the farms receiving payments.

More New Monographs



Food Cost Review, 1989, by Denis Dunham. 60 pp. July 1990.

Food prices rose 5.8 percent in 1989, the largest increase since 1981. This report explains the factors that contributed to rising food prices, how much of the retail food price the farm value represents, how farm-to-retail price spreads changed, how recent developments affect food industry costs and profits, and how much Americans spent for food. **Order # AER-636. \$11.00.**

Barley: State-Level Costs of Production, 1986-88, by William D. McBride, Mir B. Ali, and Robert A. Pelly. 26 pp. June 1990.

Presents State-level barley production cost and returns estimates for 1986-88. Barley yields in the 1980's averaged 47.9 bushels per planted acre.

Order # AGES 9046. \$8.00.

Competition in East Asia's Agricultural Import Market, by J. Albert Evans. 37 pp. May 1990.

Examines trends in agricultural imports in Japan, Korea, Taiwan, and Hong Kong for 1962-86, using a market share approach to assess the competitive position of U.S. and other exporters.

Order # AGES 9040. \$8.00.

Government Intervention in Agriculture: A Regulatory Approach, by David W. Skully. 32 pp. May 1990.

Examines the behavior of public agents creating and administering policies to transfer rent among domestic economic interest groups. The bias of farm policy shifts from pro-consumer to pro-producer and from fiscal surplus to fiscal deficit with the industrialization and diversification of the national economy.

Order # AGES 9039. \$8.00.

A Single Equation Approach to Estimating Nonstationary Markov Matrices: The Case of U.S. Agriculture, 1974-78, by R. Neal Peterson. 28 pp. August 1990.

Develops an original method, using Markov analysis and regression analysis, for analyzing the effect of different economic/demographic variables on the rates with which farms change from one sales class to another.

Order # TB-1781. \$8.00.

U.S. Adjustment in the 1990's: A CGE Analysis of Alternative Trade Strategies, by Kenneth Hanson, Sherman Robinson, and Stephen Tokarick. 25 pp. May 1990.

Two scenarios explore the implications of how a reduction in the trade deficit will affect the U.S. economy. One view assesses an environment of successful world trade liberalization; the other sees the world economy lapse into protectionism. The report uses a 30-sector computable equilibrium model of the United States.

Order # AGES 9031. \$8.00.

The U.S. Sheep Industry, by Richard Stillman, Terry Crawford, and Lorna Aldrich. 52 pp. July 1990.

Focuses on production of lamb and lamb products, returns in the sheep industry, demand and marketing trends for lamb and lamb imports, both live and product.

Order # AGES 9048. \$8.00.

Government Intervention in Pakistan's Cotton Sector, by Gary Ender. 53 pp. June 1990.

Examines the cotton sector in Pakistan, detailing the technical and economic factors underlying recent trends in area, yield, and production.

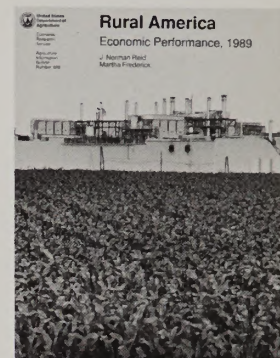
Order # AGES 9041. \$8.00.

Corn: State-Level Costs of Production, 1986-88, by Robert A. Pelly and Mir B. Ali. 35 pp. June 1990.

Presents State-level corn production cost and returns estimates for 1986-88. Corn, the leading grain commodity in total value and volume of

production, saw a decline in output which triggered an 80-percent increase in corn prices during 1986-88.

Order # AGES 9045. \$8.00.



Rural America: Economic Performance, 1989, by J. Norman Reid and Martha Frederick. 24 pp. August 1990.

Finds that rural America's economy in 1980-89 was more sluggish than the urban economy and continued to undergo industrial restructuring. Job loss and other factors in rural America led to declining relative incomes, and higher poverty rates.

Order # AIB-609. \$8.00.

New Global Commodity Reports

The World Beef Market—Government Intervention and Multilateral Policy Reform, by William F. Hahn, Terry L. Crawford, Linda Bailey, and Shayle Shagam. 68 pp. August 1990. **Order # AGES 9051. \$11.00.**

The World Dairy Market—Government Intervention and Multilateral Policy Reform, by Don P. Blayney and Richard Fallert. 76 pp. August 1990. **Order # AGES 9053. \$11.00.**

These two new reports describe global commodity markets, evaluate the consequences of Government intervention in agricultural markets, and discuss the implications of global policy reform. These reports are trade-focused companion volumes to the series of commodity background papers advertised in previous issues of *Reports*.

Agricultural Food Policy Review: U.S. Agricultural Policies in a Changing World. 404 pp. November 1989.

This review brings together background information for assessing today's agricultural sector and programs of the Food Security Act of 1985, and for looking to the future for new agricultural, environmental, and rural development strategies.

Order # AER-620. \$12.00.

Outlook '90 Chartbook. 103 pp. February 1990.

Includes more than 150 charts used by speakers at the 66th Annual Outlook Conference in November 1989.

Order # AGES 9001. \$8.00.



1990 Agricultural Chartbook. 120 pp. April 1990.

Contains more than 300 charts covering a wide range of subjects, ranging from U.S. exports to foreign farm output, broilers to vegetables, food prices to consumption trends, and more. Also includes charts taken from 1990 testimony by the Assistant Secretary of Agriculture for Economics.

Order # AH-689. \$11.00.

A Summary of Federal Laws and Regulations Affecting Agricultural Employers, by Jack L. Runyan. 18 pp. January 1989.

A single source of information describing Federal laws and regulations that pertain to agricultural employer-employee relations and agricultural employment taxes.

Order # AIB-550. \$5.50.

Food Costs...From Farm to Retail in 1989, by Denis Dunham. 12 pp. March 1990.

Reports how much food costs are changing and why, and how much of the consumer food dollar goes to the farm and how much to food processors and marketers.

Order # AIB-593. \$4.00.

Generic Promotion of Agricultural Products: Balancing Producers' and Consumers' Needs, by William M. Blisard and James R. Blaylock. 6 pp. July 1989.

Examines policy issues involved in Government-authorized generic advertising programs.

Order # AIB-565. \$3.00.

The Economics of Safeguarding the U.S. Food Supply, by Tanya Roberts and Eileen van Ravenswaay. 8 pp. July 1989.

A look at the economic issues involved in detecting and eliminating contaminants in the food supply and the challenges of incorporating new technology into workable food safety policies.

Order # AIB-566. \$3.00.



Economic Returns to Boll Weevil Eradication, by Gerald A. Carlson, Glenn Sappie, and Michael Hamig. 31 pp. September 1989.

Evaluates returns of a pest control program in a large geographical area and the joint efforts of farmers and public agencies, in contrast to pest control efforts by individuals, which can be less successful.

Order # AER-621. \$5.50.

GATT and Agriculture: The Concepts of PSE's and CSE's. 23 pp. April 1989.

This illustrated booklet explains two measures of government intervention in agriculture: production subsidy equivalents and consumer subsidy equivalents.

Order # MP-1468. \$5.50.

Farm Policy Bestsellers

The Basic Mechanisms of U.S. Farm Policy: How They Work, With Examples and Illustrations. 88 pp. January 1990.

Describes in plain English the key concepts of how U.S. farm policy works. Takes you step by step through the major programs.

Order # MP-1479. \$6.50.

Entrepreneurship Theories and Their Use in Rural Development: An Annotated Bibliography, by Martha Frederick and Celeste A. Long. 88 pp. April 1989.

A guide to theoretical material and to more recent empirical work on entrepreneurs in different economic climates.

Order # BLA-74. \$8.00.

Glossary of Food and Agricultural Policy Terms, 1989, by Kathryn L. Lipton and Susan L. Pollack. 46 pp. November 1989.

A guide to the many terms associated with food and agricultural policies and programs.

Order # AIB-573. \$5.50.

Agricultural Statistics of Eastern Europe and the Soviet Union, 1965-85, by Nancy J. Cochrane. 129 pp. July 1989.

Contains 110 tables on land use, farm structure, population, farm machinery, crop production, livestock inventories and production, and per capita consumption of selected foods. Covers USSR, East Germany, Hungary, Poland, Romania, and Yugoslavia.

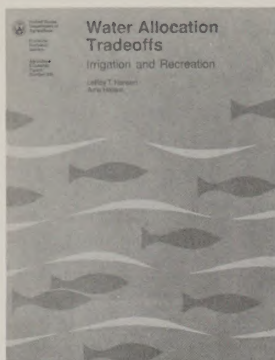
Order # SB-778. \$8.00.

The Basic Mechanisms of European Community (EC) Farm Policy. 28 pp. August 1990. NEW.

This new briefing booklet illustrates the effects of target, intervention, and threshold prices, plus levies and refunds.

Order # MP-1485. \$5.50.

Irrigation, the Conservation Reserve, and Inputs



Water Allocation Tradeoffs: Irrigation and Recreation, by LeRoy T. Hansen and Arne Hallam. 21 pp. June 1990.

Develops a procedure for estimating the marginal value of water used for fishing that includes the effects of upstream diversions on all points downstream. Diverting water from streams for irrigation competes with its use as a recreational fishing resource.

Order # AER-634. \$8.00.

Agricultural Use of Federally Supplied Irrigation Water, 1979-86, by Tom McGuckin, Gary Bruner, Donald Negri, and Michael Moore. 70 pp. December 1989.

Describes trends in cropping patterns and Bureau of Reclamation water use for 1979-86. In the past decade, BuRec has not started any new water development projects, opting instead to complete and manage existing projects.

Order # SB-788. \$8.00.

Water Quality Benefits from the Conservation Reserve Program, by Marc O. Ribaud. 30 pp. February 1989.

Looks at the estimated \$3.5 to \$4 billion in water quality benefits that may be generated as a side effect of the Conservation Reserve Program.

Order # AER-606. \$5.50.

Factor Demand in Irrigated Agriculture Under Conditions of Restricted Water Supplies, by Daniel J. Bernardo and Norman K. Whittlesey. 13 pp. July 1989.

Uses a whole-farm irrigation management model to look at several scenarios of limited water supply. Without greatly affecting their returns, farmers can use up to 35 percent less irrigation water under surface irrigation and up to 25 percent less under center pivot irrigation.

Order # TB-1765. \$5.50.

Public Policies in Water-Resource Use: Their Effect on Groundwater Mining and Surface-Water Imports, by C.S. Kim and Michael R. Moore. 35 pp. July 1989.

Analyzes the effect of public policies on rate of groundwater use and on the timing of surface water transported into an area to satisfy regional water demand. The results show that when public policy holds down the price of surface water, then surface water transported into the region will begin earlier.

Order # TB-1764. \$5.50.

Irrigated Acreage in the Conservation Reserve Program, by Glenn D. Schaible. 19 pp. July 1989.

Identifies the extent of marginal irrigated acreage enrolled in the CRP through 1987 and the likely amount of such land to be enrolled in the CRP. Marginal irrigated acreage enrolled in the CRP through 1987 represents less than 2 percent of the 23 million acres enrolled nationwide.

Order # AER-610. \$5.50.

The Conservation Reserve Program: An Economic Assessment, by C. Edwin Young and C. Tim Osborn. 40 pp. February 1990.

Estimates that net economic benefits of the Conservation Reserve Program range between \$3.4 billion and \$11 billion in present value. The CRP is expected to boost net farm income and improve environmental quality over the life of the program (1986-99).

Order # AER-626. \$8.00.

Implementing the Conservation Reserve Program: Analysis of Environmental Options, by Clayton W. Ogg, Marcel P. Aillery, and Marc O. Ribaud. 26 pp. October 1989.

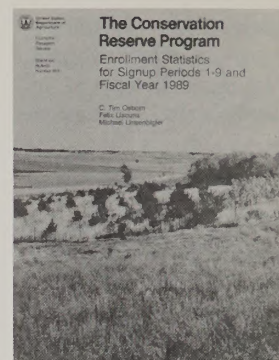
Addresses which types of land to target to gain maximum environmental benefits from the CRP. Benefits would be mixed if the CRP included irrigated land, highly erodible land, and land with wetness problems.

Order # AER-618. \$5.50.

Economics of Ethanol Production in the United States, by Sally M. Kane and John M. Reilly. 20 pp. March 1989.

Evaluates structural characteristics of the ethanol industry, including economies of scale and the relative economics of wet- and dry-mill plants.

Order # AER-607. \$5.50.



The Conservation Reserve Program: Enrollment Statistics for Signup Periods 1-9 and Fiscal Year 1989, by C. Tim Osborn, Felix Llacuna, and Michael Linsenbigler. 152 pp. July 1990.

Presents statistics covering all CRP cropland enrolled in signup periods 1-9 and CRP cropland newly retired in fiscal year 1989.

Order # SB-811. \$14.00.

Natural Resources and Users Benefit from the Conservation Reserve Program, by Marc O. Ribaud, Daniel Colacicco, Linda L. Langner, Steven Piper, and Glenn D. Schaible. 51 pp. January 1990.

Estimates how retiring cropland benefits natural resources under three scenarios of CRP enrollment. The CRP may generate \$6-\$14 billion in benefits to natural resources if 45 million acres of erodible or environmentally sensitive cropland are removed from agricultural production by 1990 and planted to permanent grasses and trees.

Order # AER-627. \$8.00.

The Contribution of Speculative Bubbles to Farmland Prices, by Abebayehu Tegene and Fred Kuchler. 32 pp. July 1990.

This report tested farmland prices in the Corn Belt, Northern Plains, and Lake States to see if rumors about potential farmland prices resulted in actual price movements. In each region, the effect of rumors seemed inconsequential.

Order # TB-1782. \$8.00.

A Permanent Wetland Reserve: Analysis of a New Approach to Wetland Protection, by Marc Carey, Ralph Heimlich, and Richard Brazee. 20 pp. August 1990.

Current Federal wetland protection efforts may be insufficient to attain the administration's goal of "no net loss" in wetlands. One remedy is to establish a permanent wetland reserve program. This report discusses the likely geographic distribution of such a reserve, crop rotations likely to be affected, and potential easement and restoration costs.

Order # AIB-610. \$4.00.

Agricultural Pesticide Use Trends and Policy Issues, by Craig D. Osteen and Philip I. Szmedra. 87 pp. September 1989.

Discusses pesticide use trends and factors affecting those trends, and presents major policy issues. Pesticide use on major crops doubled between 1964 and 1982, to 558 million pounds of active ingredient, but has been stable since 1980.

Order # AER-622. \$8.00.

Technology Reports

International Technology Transfer in Agriculture, by Margot Anderson. 12 pp. August 1989. Discusses implications of and reasons for private sector expansion into agricultural research and technology transfer. Private farms are becoming more important in farm technology transfer, which occurs when a country acquires, imitates, or adapts technologies developed in another country. Order # AIB-571. \$3.00.

How Technological Progress and Government Programs Influence Agricultural Land Values, by Robbin Shoemaker. 12 pp. January 1990. Examines the mix of forces leading to the longrun increase in land values. Technological change has kept land values lower than they would be otherwise. Government acreage reduction programs, by creating an artificial scarcity of land, have counteracted some of the effects of technological change and boosted farmland values. Order # AIB-582. \$4.00.

Consumer Effects of Biotechnology, by John M. Reilly. 12 pp. December 1989. Identifies some of the issues and tradeoffs between concerns raised by biotechnology and the problems people hope biotechnology will solve. Order # AIB-581. \$3.00.

Biotechnology and Agriculture: Emergence of Bovine Somatotropin (bST), by Don P. Blayney and Richard F. Fallert. 28 pp. June 1990. Updates and extends a 1987 study of bST and the dairy industry. The earlier study's findings remain valid: effects of bST on the dairy industry would not be as dramatic as originally projected; changes underway in the industry would be reinforced but not substantially affected by bST adoption, and industry effects of bST ultimately depend on the flexibility of the dairy price support program. Order # AGES 9037. \$8.00.

Issues Raised by New Agricultural Technologies: Livestock Growth Hormones, by Fred Kuchler and John McLelland. 40 pp. April 1989. Looks at the changes to be expected if all livestock were treated with growth hormones. Order # AER-608. \$5.50.

Water Conservation Through Irrigation Technology, by Donald H. Negri and John J. Hanchar. 12 pp. November 1989. Finds that new equipment and advanced water management practices conserve water without sacrificing crop yields. Farmers' decisions to adopt the new technology rest on cost of water, while physical properties of the land, like topography and soil texture, influence choice of irrigation technology. Order # AIB-576. \$3.00.

Chemigation: A Technology for the Future? by Noel Gollehon. 16 pp. July 1990. Chemigation is the use of an irrigation system to apply chemicals to soils and plants, and is suited for most irrigation application technologies, including sprinkler, surface (flood or furrow), and drip or trickle systems. This report looks at the mechanics of this new technology, as well as the benefits and drawbacks involved. Order # AIB-608. \$4.00.

Chemigation reduces. . .

- Costs when used for multiple applications with existing irrigation systems.
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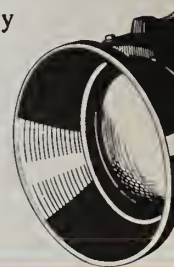
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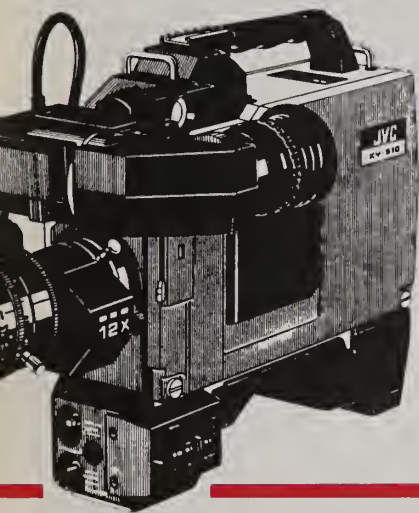
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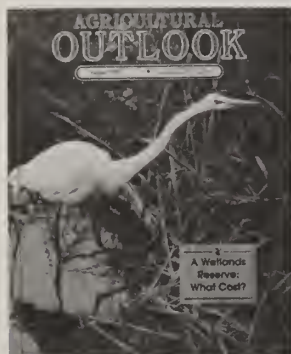
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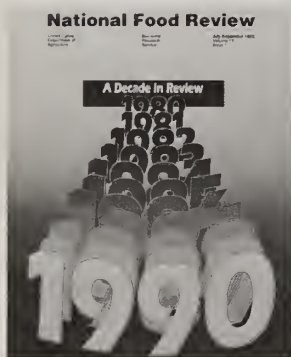
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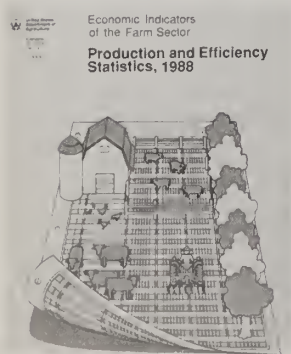
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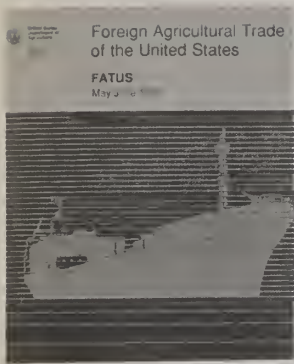
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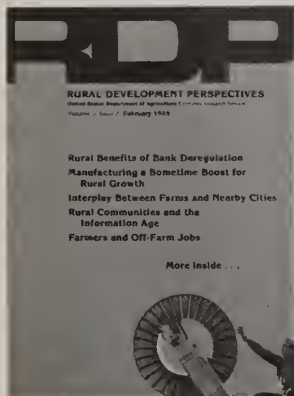
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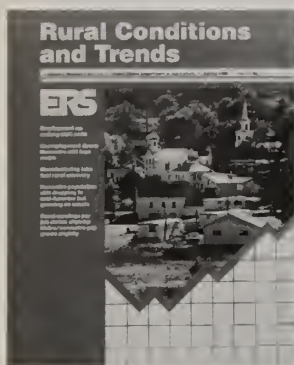
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